

## REMARKS

In response to the outstanding Office Action mailed June 12, 2007, Applicant has amended the Specification as noted below. Additionally, Claims 1, 3, 5, 7 and 8 have been amended. Claims 1-8 remain.

It is asserted in the Office Action that the disclosure is objected to because of the following informalities:

Page 10, line 19, the Examiner suggests to change “the groping” to –the grouping--. In response, Applicant has amended the specification to correct the minor error as requested by the Examiner. Approval is respectfully requested.

Claims 1 – 8 are rejected under 35 USC 112, first paragraph, as failing to comply with the enablement requirement. Claims 2 – 4, 6 and 8 are rejected as incorporating the deficiencies of claims 1, 5, and 7 upon which they depend.

In response, Applicant has amended Claims 1, 3, 5, 7 and 8, and notes, in support thereof, the detection processor 232 performs maximum likelihood detection for each of groups with available sequences for each of the groups. The detection processor 233 performs maximum likelihood detection for all output values of processor 232 with available sequences for the output values of processor 232. These are supported by the description “In the MLD, the transmitted sequence is selected that minimizes the Euclidean distance  $e_j^2$  among all the available transmitted and received sequences.”

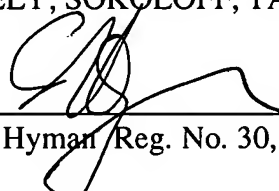
In view of the foregoing, it is submitted that Claims 1-8 are in condition for allowance and such action is solicited at the earliest possible date. If the Examiner believes a telephone conference would be useful in moving the case forward, he is encouraged to contact the undersigned at (310) 207-3800.

If necessary, the Commissioner is hereby authorized in this, concurrent and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2666 for any additional fees required under 37 C.F.R §§ 1.16 or 1.17, particularly, extension of time fees.

Respectfully submitted,


BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN

Date: 9/6, 2007

By:   
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CERTIFICATE OF MAILING  
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail with sufficient postage in an envelope addressed to: Mail Stop Amendments, Commissioner for Patents, P. O. Box 1450, Alexandria, Virginia 22313-1450.

 9-7-07  
Linda Metz Date